

JUN 08 2004

OFFICIAL

Patent / Docket No. 11349RRUS04U/22171.321  
Customer No. 000027683

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
Khalil et al.

Serial No. 10/089752

Filed: 09/12/2002

For: Key Exchange for a Network Architecture

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450§  
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§  
§

Group Art Unit: 2661

Examiner: Unknown

Attorney Docket Number: 22171.321

## POWER OF ATTORNEY FOR PATENT APPLICATION

Nortel Networks Limited, a Canadian corporation having principal offices at Nortel Networks Limited, 2351 Boulevard Alfred-Nobel, St. Laurent, Quebec H4S 2A9, CANADA.

The owner by assignment of the entire right, title and interest to the invention for (TITLE), by (INVENTORS NAMES) and in and to the application for patent and any Letters Patent, wherein domestic or foreign, that may issue thereon, by virtue of the assignment (check as applicable):

Recorded Concurrently Herewith  
Recorded at Root \_\_\_\_\_ Frame \_\_\_\_\_Recorded on \_\_\_\_\_  
Copy Attached ☒

hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

David L. McCombs (Reg. No. 32,271); Jeffrey M. Becker (Reg. No. 35,442); James R. Bell (Reg. No. 26,528); Timothy F. Bliss (Reg. No. 50,925); Randall C. Brown (Reg. No. 31,213); Randall E. Colson (Reg. No. 40,566); Michael A. Davis, Jr. (Reg. No. 35,488); Andrew S. Ehrke (Reg. No. 50,271); Priscilla Ferguson (Reg. No. 42,531); Sarah T. Harris (Reg. No. 35,891); Alan N. Herda (Reg. No. 50,426); William E. Hickman (Reg. No. 46,771); Dave R. Hoffman (Reg. No. P-55,272); Rita M. Irani (Reg. No. 31,028); Wei Wei Jeang (Reg. No. 33,305); Mark P. Kahler (Reg. No. 29,178); Warren B. Kice (Reg. No. 22,732); J. Andrew Lowes (Reg. No. 40,706); Todd Mattingly (Reg. No. 40,298); Julie Nickola (Reg. No. 50,826); David M. O'Dell (Reg. No. 42,044); Gloria Norberg (Reg. No. 36,706); and Richard V. Wells (Reg. No. 53,757)

Please address all correspondence and telephone calls regarding this application to:

David L. McCombs  
Haynes and Boone, LLP  
901 Main Street, Suite 3100  
Dallas, TX 75202-3789  
(214) 651-5553 (214) 200-0853 - Fax

its attorneys with full power of substitution and revocation, to prosecute all domestic and foreign patent applications including PCT and EPO filings, relating to said invention and to transact all business connected therewith, including signing of all papers on behalf and making alterations and amendments.

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above, and is authorized to act on behalf of the Assignee.

Date

2/6/2004

NORTEL NETWORKS LIMITED

Printed Name:

RANDALL W. MISHNER

Title

SENIOR PATENT ATTORNEY

D1211374.1

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PATENT / DOCKET NO.: 22171.321 / 11349RRUS04U

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor" has invented a new and useful invention entitled:

KEY EXCHANGE FOR NETWORK ARCHITECTURE

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, NORTEL NETWORKS LIMITED, a Canadian company having a principal office and place of business at, 2351 Boulevard Alfred-Noble, St. Laurent, Quebec H4S 2A9, Canada hereinafter called the "Assignee", is desirous of acquiring the entire right, title, and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and application herein above identified, and any Letters Patent that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patent for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patent herein contemplated; and that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

PATENT / DOCKET NO.: 22171.321 / 11349RRUS04U

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

Dated: 8/14/02 Mohamed M Khalil  
Mohamed Khalil  
Witnessed by: Lutay Blanocet Lutay Blanocet  
Signature 8/14/02

COPY

Dated: \_\_\_\_\_  
Raja P. Narayanan  
Witnessed by: \_\_\_\_\_  
Signature \_\_\_\_\_

Dated: \_\_\_\_\_  
Haseeb Akhtar  
Witnessed by: \_\_\_\_\_  
Signature \_\_\_\_\_

Dated: \_\_\_\_\_  
Emad A. Qaddoura  
Witnessed by: \_\_\_\_\_  
signature \_\_\_\_\_

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IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

Dated: \_\_\_\_\_

Mohamed Khalil

Witnessed by: \_\_\_\_\_

Signature

Dated: 9 April 2002

Raja P. Narayanan  
Raja P. Narayanan

Witnessed by: Theresa Ford

Theresa Ford, April 9, 2002  
Signature

Dated: \_\_\_\_\_

Haseeb Akhtar

Witnessed by: \_\_\_\_\_

Signature

Dated: \_\_\_\_\_

Emad A. Qaddoura

Witnessed by: \_\_\_\_\_

signature

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Dated: \_\_\_\_\_  
Mohamed Khalil

Witnessed by: \_\_\_\_\_  
Signature

**COPY**

Dated: \_\_\_\_\_  
Raja P. Narayanan

Witnessed by: \_\_\_\_\_  
Signature

Dated: 4/12/02 \_\_\_\_\_  
Haseeb Akhtar

Witnessed by: ANITA BINTA HAI \_\_\_\_\_  
Signature

Dated: \_\_\_\_\_  
Emad A. Qaddoura

Witnessed by: \_\_\_\_\_  
signature

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Dated: \_\_\_\_\_  
Mohamed Khalil

Witnessed by: \_\_\_\_\_  
Signature

Dated: \_\_\_\_\_  
Raja P. Narayanan

Witnessed by: \_\_\_\_\_  
Signature

Dated: \_\_\_\_\_  
Haseeb Akhtar

Witnessed by: \_\_\_\_\_  
Signature

Dated: 4/18/2002 Emad A. Qaddoura  
Emad A. Qaddoura

Witnessed by: MUSBAH AGEL Musbah Agel  
signature

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